

ACKNOWLEDGMENTS

I

This manual presents the state-of-the-art on process design for land treatment systems. It replaces the process design manual with the same title, published in October 1977. Preparation of this manual was sponsored by the U.S. Environmental Protection Agency (EPA), Office of Research and Development, and Office of Water; the U.S. Army Corps of Engineers; the U.S. Department of the Interior (USDI), Office of Water Research and Technology; and the U.S. Department of Agriculture (USDA), Office of Environmental Quality and Farmers Home Administration. An interagency coordinating committee representing these sponsors was established; this committee then selected a team of contract authors. Contract administration was provided by EPA CERL, Cincinnati, Ohio.

PROJECT OFFICER: Dr. James E. Smith Jr., EPA, CERL.

Dr. Smith was also chairman of the interagency coordinating committee. Assistance in contract administration was provided by Enviro Control, Inc., under the direction of Mr. Torsten Rothman.

CONTRACTOR: Metcalf & Eddy, Inc., Sacramento, California.

Supervision and Principal Authors:

Ronald W. Crites, Project Manager,
E.L. Meyer and R.G. Smith

Staff Authors:

M. Walker, K. Alston, M. Alpert, C. Stein

Editing and Review:

F. Burton, J. Miller, C. Pound

Consultant Authors:

Dr. A. Wallace, University of Idaho; Dr. W. Nutter, University of Georgia; Mr. D. Hinrichs, Culp/Wesner/Culp; Mr. B. Whitson, Mr. D. Deemer, Dr. O. Aly, and Mr. L. Gilde, Campbell Soup Company; Dr. E. Myers, Williams & Works, Inc.; Mr. D. Hirschbrunner and Ms. D. Parkes, Bruce Gilmore & Associates, Inc.

ACKNOWLEDGMENTS

II

A technical workgroup composed of members from the sponsoring agencies, as well as other invited experts, was formed. In addition, a multidisciplinary group of engineers and scientists also furnished technical review. Under the direction of its chairman, the workgroup defined the scope of the effort, supervised the work of the contractor, reviewed the manual, and provided technical editing and input to the manual.

CHAIRMAN: Sherwood C. Reed, USA CRREL

WORKGROUP:

EPA: Mr. R.E. Thomas, Dr. J.E. Smith Jr.,
Dr. C. Harlin, Mr. W. Whittington,
Mr. R. Bastian, Dr. H. Thacker,
Dr. N. Kowal, Mr. R. Dean, Mr. J. Ariail,
Dr. C. Enfield, Mr. J. Roesler,
Mr. W. Huang, Mr. J. Smith

U.S. Army: Mr. N. Urban, Mr. D. Lamont,
Mr. W. Medding, Mr. P. Carmichael,
Dr. I. Iskandar, Mr. J. Martel,
Mr. J. Bouzoun, Dr. R. Lee,
Mr. M. Cullinane, Mr. J. Bauer,
Dr. S. Schaub, Dr. H. McKim

USDA: Mr. P. Smith, Mr. C. Rose, Mr. G. Deal,
Dr. H. Bouwer, Mr. W. Opfer, Dr. D. Urie,
Mr. R. Phillips, Dr. D. Clapp

USDI: Mr. R. Madancy

USDOE: Ms. B. Broomfield

NSF: Dr. E. Bryan

Academic Institutions and State Agencies:

Dr. M. Kirkham, Dr. E. Lennette, Dr. W. Sopper,
Dr. R. Smith, Dr. A. Overman, Dr. P. Abernathy,
Dr. M. Overcash, Dr. A. Erickson, Mr. D. Kendrick

Invited Technical Reviewers:

Mr. B. Seabrook, Mr. T. Jenkins, Mr. J. Kreissl,
Mr. A. Palazzo, Dr. E. Smith, Ms. H. Farquhar,
Dr. R. Lewis, Dr. T. Asano, Mr. T. Rothman,
Mr. R. Sletten, Mr. G. Abele